

# PATENT ABSTRACTS OF JAPAN

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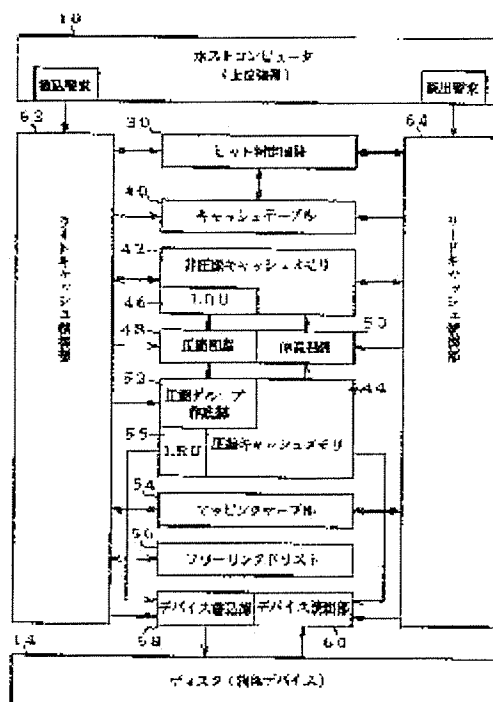
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## (54) DISK CONTROL DEVICE

### (57)Abstract:

**PURPOSE:** To compress/extend and manage data by using the hardware of a display control device without increasing the load of a CPU in a host computer and reducing the practical application rate of a disk device.

**CONSTITUTION:** A logic block ejected from a non-compression cache memory 42 is compressed by a compression circuit 48, plural compressed data are gathered and collected as a compression group with a fixed length (logic sector size) and stored in a logic sector of a disk 14 through a compression cache memory 44. A mapping table 54 registers the corresponding relation of plural logic blocks included in the logic sector of the disk 14. At the time of receiving a request based upon a logick block number from a master, the contents of the logic sector (compressed group) of the disk 14 are read out/written while referring to the mapping table 54.



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